



INHENERGY CO., LTD

SMART GRID-CONNECTED PV INVERTER CATALOG

Power the World with Sunlight

INHENERGY COMPANY PROFILE



Aboutus:

Inhenergy Co., Ltd. (hereinafter referred to as INHENERGY) is a high-tech enterprise focusing on new energy distributed access, energy efficiency management and energy Internet, headquartered in High-Tech Zone, Tangjia Harbour, Zhuhai. The company has an experienced and innovative R & D team in the industry and has applied for a number of national invention patents.

INHENERGY provides professional smart photovoltaic inverter, energy storage converter and monitoring cloud platform solution, which makes INHENERGY a high-tech enterprise in the field of new energy distributed access. Ever since its establishment, INHENERGY has been adhering to the self-owned brand strategy, using its product reliability and performance advantage as core competitiveness, integrating domestic and overseas market resources and exploring globalization business.

INHENERGY will be dedicated to the research on the key technologies of photovoltaic grid connection, optical storage charging, demand-side response, user-side management, energy power trading platform and micro-grid energy management system. Meanwhile INHENERGY will improve the level of intelligent scheduling, real-time trading and instant absorption of new energy to increase energy utilization rate.

Single Phase Grid-connected PV Inverter

SI-1K-S2/SI-1.5K-S2/SI 2K-S2/SI-2.5K-S2/SI-3K-S2/SI-3.3K-S2



Stable

Aluminum case design to enhance heat dissipation and prevent rust corrosion, prolong life time, performance well in extreme environment.



Flexible

Transformer-less, smaller and lighter. Optimized global MPPT algorithm, MPPT efficiency higher than 99.5%.



Smart

One-button safety setting, easy configuration of all parameters. Built-in independence RTC chip data storage of 25 years.



Safe

IP 65 protection for indoor and outdoor installation. AC and DC surge protection guarantee system safety.



Reliable

Key components are from first rank brand supplier worldwide. R&D team are experienced experts in string inverter circle, proven technology create reliable quality.



Easy use

Integrated RS232/WIFI/GPRS, RS485 port, for improved communication. Free monitoring anytime anywhere. Local and remote intelligent maintenance by PC and Apps.

Technical Data	SI-1K-S2	SI-1.5K-S2	SI-2K-S2	SI-2.5K-S2	SI-3K-S2	SI-3.3K-S2
Input Data						
Max. DC input power	1300W	1950W	2600W	3250W	3900W	3900W
Max. DC input voltage	500V	500V	500V	550V	550V	550V
Operation voltage range	50V-500V	50V-500V	50V-500V	80V-540V	80V-540V	80V-540V
Number of independent MPPT / strings per MPPT	1/1					
MPPT max. current	12.5A					
AC Output Data						
Rated output power	1kW	1.5kW	2kW	2.5kW	3kW	3.3kW
Max. output power	1.1kW	1.65kW	2.2kW	2.75kW	3.3kW	3.3kW
Rated output voltage	230V/180V-280V					
Rated output frequency	50Hz,60Hz/±5Hz					
Rated output current	4.4A	6.6A	8.7A	10.9A	13.1A	14.5A
Max. output current	5A	7.5A	10A	12A	14.5A	14.5A
Power factor	-0.8~+0.8(adjustable)					
THDi	<3%(Nominal Output)					
Grid system pattern	L+N+PE					
Efficiency						
Max. efficiency	97.6%					
Europe efficiency	96.8%					
Protection						
Input DC switch	yes					
Input over current protection	yes					
DC reverse polarity protection	yes					
Output over voltage protection	yes					
Output over current protection	yes					
Anti islanding protection	yes					
Insulation impedance protection	yes					
RCD detection	yes					
General Data						
Dimensions W/L/H in mm	265/270/140					
Weight	7kg					
Noise	<25dB					
Operation temperature range	-25 ~+60					
Heat dissipation mode	Natural					
IP Class	IP 65					
Maximum altitude	4000m					
Self-Consumption night	<1w					
Topology	Transformerless					
Features						
LCD display	yes					
Communication interface	WiFi/GPRS/RS485					
Warranty	5 years (standard) / 20 years (optional & negotiable)					
Standards	NB/T32004,VDE-AR-N4105,EN50549,AS 4777					

Single Phase Grid-connected PV Inverter

SI-3.6K-S2/SI-4K-S2/SI-4.6K-S2/SI-5K-S2/SI-6K-S2



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Technical Data	SI-3.6K-S2	SI-4K-S2	SI-4.6K-S2	SI-5K-S2	SI-6K-S2
Input Data					
Max. DC input power	4700W	5500W	6000W	6500W	7800W
Max. DC input voltage	550V	550V	550V	550V	550V
Operation voltage range	80V-540V	80V-540V	80V-540V	80V-540V	80V-540V
Number of independent MPPT / strings per MPPT	2/1+1				
MPPT max. current	12.5A/12.5A				
AC Output Data					
Rated output power	3.6kW	4kW	4.6kW	5kW	6kW
Max. output power	4kW	4.4kW	5kW	5.5kW	6.6kW
Rated output voltage	230V/180V-280V				
Rated output frequency	50Hz,60Hz/±5Hz				
Rated output current	15.7A	18A	20A	21.8A	26.1A
Max. output current	17.3A	20A	22A	24A	29A
Power factor	-0.8~+0.8(adjustable)				
THDi	<3%(Nominal Output)				
Grid system pattern	L+N+PE				
Efficiency					
Max. efficiency	98.2%				
Europe efficiency	97.5%				
Protection					
Input DC switch	yes				
Input over current protection	yes				
DC reverse polarity protection	yes				
Output over voltage protection	yes				
Output over current protection	yes				
Anti islanding protection	yes				
Insulation impedance protection	yes				
RCD detection	yes				
General Data					
Dimensions W/L/H in mm	330/312/160				
Weight	11kg				
Noise	<25dB				
Operation temperature range	-25°C~+60°C				
Heat dissipation mode	Natural				
IP Class	IP 65				
Maximum altitude	4000m				
Self-Consumption night	<1w				
Topology	Transformerless				
Features					
LCD display	yes				
Communication interface	WiFi/GPRS/RS485				
Warranty	5 years (standard) / 20 years (optional & negotiable)				
Standards	NB/T32004,VDE-AR-N4105,EN50549,AS 4777				

Single Phase Grid-connected PV Inverter

SI-7K-S2/SI-8K-S2/SI-9K-S2/SI-10K-S2



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Technical Data	SI-7K-S2	SI-8K-S2	SI-9K-S2	SI-10K-S2
Input Data				
Max. DC input power	9100W	10400W	11700W	13000W
Max. DC input voltage	550V	550V	550V	550V
Operation voltage range	80V-540V	80V-540V	80V-540V	80V-540V
Number of independent MPPT / strings per MPPT	3/1+1+1	3/1+1+1	3/1+1+1	3/1+1+1
MPPT max. current	12.5A/12.5A/12.5A	12.5A/12.5A/12.5A	12.5A/12.5A/12.5A	12.5A/12.5A/12.5A
AC Output Data				
Rated output power	7kW	8kW	9kW	10kW
Max. output power	7.7kW	8.8kW	9.9kW	10kW
Rated output voltage	230V/180V-280V			
Rated output frequency	50Hz,60Hz/±5Hz			
Rated output current	30.5A	35A	39.2A	44A
Max. output current	34A	38.5A	43A	44A
Power factor	-0.8~+0.8(adjustable)			
THDi	<3%(Nominal Output)			
Grid system pattern	L+N+PE			
Efficiency				
Max. efficiency	98.4%			
Europe efficiency	97.5%			
Protection				
Input DC switch	yes			
Input over current protection	yes			
DC reverse polarity protection	yes			
Output over voltage protection	yes			
Output over current protection	yes			
Anti islanding protection	yes			
Insulation impedance protection	yes			
RCD detection	yes			
General Data				
Dimensions W/L/H in mm	355/400/180			
Weight	16kg			
Noise	<25dB		<45dB	
Operation temperature range	-25°C~+60°C			
Heat dissipation mode	Natural		Smart cooling	
IP Class	IP 65			
Maximum altitude	4000m			
Self-Consumption night	<1w			
Topology	Transformerless			
Features				
LCD display	yes			
Communication interface	WiFi/GPRS/RS485			
Warranty	5 years (standard) / 20 years (optional & negotiable)			
Standards	NB/T32004,VDE-AR-N4105,EN50549,AS 4777			

Three Phase Grid-connected PV Inverter

SI-4K-T2/SI-5K-T2/SI-6K-T2



Stable

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Technical Data	SI-4K-T2	SI-5K-T2	SI-6K-T2
Input Data			
Max. DC input power	5200W	6500W	78000W
Max. DC input voltage	1100V		
Operation voltage range	200V-1000V		
Number of independent MPPT / strings per MPPT	2/1	2/1	2/1
MPPT max. current	13A/13A	13A/13A	13A/13A
AC Output Data			
Rated output power	4000W	5000W	6000W
Max. output power	4400W	5500W	6600W
Rated output voltage	400V/320V-480V		
Rated output frequency	50Hz,60Hz/±5Hz		
Rated output current	5.7A	7.2A	8.7A
Max. output current	7.2A	8A	10A
Power factor	-0.8~+0.8(adjustable)		
THDi	<3%(Nominal Output)		
Grid system pattern	3W+N+PE		
Efficiency			
Max. efficiency	98.2%		
Europe efficiency	98%		
Protection			
Input DC switch	yes		
Input over current protection	yes		
DC reverse polarity protection	yes		
Output over voltage protection	yes		
Output over current protection	yes		
Anti islanding protection	yes		
AC surge protection	yes		
DC surge protection	yes		
Insulation impedance protection	yes		
RCD detection	yes		
General Data			
Dimensions W/L/H in mm	403/360/173		
Weight	14kg		
Noise	<30dB		
Operation temperature range	-25°C~+60°C		
Heat dissipation mode	Natural		
IP Class	IP 65		
Maximum altitude	4000m		
Self-Consumption night	<1w		
Topology	Transformerless		
Features			
LCD display	yes		
Communication interface	WiFi/GPRS/RS485		
Warranty	5 years (standard) / 20 years (optional & negotiable)		
Standards	NB/T32004,VDE-AR-N4105,EN50549,AS 4777		

Three Phase Grid-connected PV Inverter

SI-8K-T2/SI-10K-T2/SI-12K-T2



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Technical Data	SI-8K-T2	SI-10K-T2	SI-12K-T2
Input Data			
Max. DC input power	10400W	13000W	15600W
Max. DC input voltage	1100V		
Operation voltage range	200V-1000V		
Number of independent MPPT / strings per MPPT	2/1	2/1	2/1
MPPT max. current	13A/13A	13A/13A	13A/13A
AC Output Data			
Rated output power	8000W	10000W	13200W
Max. output power	8800W	11000W	13200W
Rated output voltage	400V/320V-480V		
Rated output frequency	50Hz,60Hz/±5Hz		
Rated output current	11.6A	14.5A	17.5A
Max. output current	13A	16A	19A
Power factor	-0.8~+0.8(adjustable)		
THDi	<3%(Nominal Output)		
Grid system pattern	3W+N+PE		
Efficiency			
Max. efficiency	98.2%		
Europe efficiency	98%		
Protection			
Input DC switch	yes		
Input over current protection	yes		
DC reverse polarity protection	yes		
Output over voltage protection	yes		
Output over current protection	yes		
Anti islanding protection	yes		
AC surge protection	yes		
DC surge protection	yes		
Insulation impedance protection	yes		
RCD detection	yes		
General Data			
Dimensions W/L/H in mm	403/360/192		
Weight	15kg		
Noise	<30dB		
Operation temperature range	-25°C~+60°C		
Heat dissipation mode	Natural		
IP Class	IP 65		
Maximum altitude	4000m		
Self-Consumption night	<1w		
Topology	Transformerless		
Features			
LCD display	yes		
Communication interface	WiFi/GPRS/RS485		
Warranty	5 years (standard) / 20 years (optional & negotiable)		
Standards	NB/T32004,VDE-AR-N4105,EN50549,AS 4777		

Three Phase Grid-connected PV Inverter

SI-13K-T2/SI-15K-T2/SI-17K-T2/SI-20K-T2



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Technical Data	SI-13K-T2	SI-15K-T2	SI-17K-T2	SI-20K-T2
Input Data				
Max. DC input power	17000W	19500W	22000W	26000W
Max. DC input voltage	1100V			
Operation voltage range	250V-1000V			
Number of independent MPPT / strings per MPPT	2/2+1	2/2+1	2/2+1	2/2+2
MPPT max. current	26A/13A	26A/13A	26A/13A	26A/26A
AC Output Data				
Rated output power	13000W	15000W	17000W	20000W
Max. output power	14300W	16500W	18700W	22000W
Rated output voltage	400V/320V-480V			
Rated output frequency	50Hz,60Hz/±5Hz			
Rated output current	19A	22A	25A	29A
Max. output current	21A	24A	27A	32A
Power factor	-0.8~+0.8(adjustable)			
THDi	<3%(Nominal Output)			
Grid system pattern	3W+N+PE			
Efficiency				
Max. efficiency	98.5%			
Europe efficiency	98.2%			
Protection				
Input DC switch	yes			
Input over current protection	yes			
DC reverse polarity protection	yes			
Output over voltage protection	yes			
Output over current protection	yes			
Anti islanding protection	yes			
AC surge protection	yes			
DC surge protection	yes			
Insulation impedance protection	yes			
RCD detection	yes			
General Data				
Dimensions W/L/H in mm	403/360/228			
Weight	18.5kg			
Operation temperature range	-25°C~+60°C			
Heat dissipation mode	Smart cooling			
IP Class	IP 65			
Maximum altitude	4000m			
Self-Consumption night	<1w			
Topology	Transformerless			
Features				
LCD display	yes			
Communication interface	WiFi/GPRS/RS485			
Warranty	5 years (standard) / 20 years (optional & negotiable)			
Standards	NB/T32004,VDE-AR-N4105,EN50549,AS 4777			

Three Phase Grid-connected PV Inverter

SI-22K-T2/SI-25K-T2/SI-27K-T2/SI-30K-T2



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Technical Data	SI-22K-T2	SI-25K-T2	SI-27K-T2	SI-30K-T2
Input Data				
Max. DC input power	28600W	32500W	35000W	39000W
Max. DC input voltage	1100V			
Operation voltage range	250V-1000V			
Number of independent MPPT / strings per MPPT	2/2+2	2/2+2	2/3+2	2/3+2
MPPT max. current	26A/26A	26A/26A	39A/26A	39A/26A
AC Output Data				
Rated output power	22000W	25000W	27000W	30000W
Max. output power	24000W	27500W	29700W	30000W
Rated output voltage	400V/320V-480V			
Rated output frequency	50Hz,60Hz/±5Hz			
Rated output current	32A	36A	40A	43.5A
Max. output current	35A	40A	43A	44A
Power factor	-0.8~+0.8(adjustable)			
THDi	<3%(Nominal Output)			
Grid system pattern	3W+N+PE			
Efficiency				
Max. efficiency	98.5%			
Europe efficiency	98.2%			
Protection				
Input DC switch	yes			
Input over current protection	yes			
DC reverse polarity protection	yes			
Output over voltage protection	yes			
Output over current protection	yes			
Anti islanding protection	yes			
AC surge protection	yes			
DC surge protection	yes			
Insulation impedance protection	yes			
RCD detection	yes			
General Data				
Dimensions W/L/H in mm	403/360/228			
Weight	20.5kg			
Operation temperature range	-25°C~+60°C			
Heat dissipation mode	Smart cooling			
IP Class	IP 65			
Maximum altitude	4000m			
Self-Consumption night	<1w			
Topology	Transformerless			
Features				
LCD display	yes			
Communication interface	WiFi/GPRS/RS485			
Warranty	5 years (standard) / 20 years (optional & negotiable)			
Standards	NB/T32004,VDE-AR-N4105,EN50549,AS 4777			

Three Phase Grid-connected PV Inverter

SI 50K/SI 60K/SI 70K/SI 80K



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Technical Data	SI 50K	SI 60K	SI 70K	SI 80K
Input Data				
Max. DC input power	60000W	75000W	85000W	100000W
Max. DC input voltage	1100V			
Operation voltage range	200V-1000V			
Number of independent MPPT / strings per MPPT	3/3	3/4	4/3	4/4
MPPT max. current	33A*3	44A*3	33A*4	44A*4
AC Output Data				
Rated output power	50000W	60000W	70000W	80000W
Max. output power	55000W	66000W	77000W	88000W
Rated output voltage	400V/320V-480V			
Rated output frequency	50Hz,60Hz/±5Hz			
Rated output current	72A	87A	101A	115A
Max. output current	80A	95A	111A	128A
Power factor	-0.8~+0.8(adjustable)			
THDi	<3%(Nominal Output)			
Grid system pattern	3W+N+PE			
Efficiency				
Max. efficiency	99%			
Europe efficiency	98.5%			
Protection				
Input DC switch	yes			
Input over current protection	yes			
DC reverse polarity protection	yes			
Output over voltage protection	yes			
Output over current protection	yes			
Anti islanding protection	yes			
AC surge protection	yes			
DC surge protection	yes			
Insulation impedance protection	yes			
RCD detection	yes			
General Data				
Dimensions (W/L/H) in mm	690/640/296			
Weight	55kg			68kg
Operation temperature range	-25°C~+60°C			
Heat dissipation mode	Smart cooling			
IP Class	IP 65			
Maximum altitude	4000m			
Self-Consumption night	<1w			
Topology	Transformerless			
Features				
LCD display	yes			
Communication interface	WiFi/GPRS/RS485			
Warranty	5 years (standard) / 20 years (optional & negotiable)			
Standards	NB/T32004,VDE-AR-N4105,EN50549,AS 4777			

Wireless Communication Module

WIFI/GPRS



General specification	
Rated voltage	DC4.7V-15V
Max. current	500mA(DC 5V)
Operation environment temperature	-35°C~+80°C
IP Class	IP 65
External interface	Db9, used for communication & power supply
Dimensions (W/L/H) in mm	31/73/132
Weight	35g
Communication specification	
Local communication interface	RS485/RS232
Public Network Access Mode	WIFI/GPRS



Efficiency

Based on mobile operator, stable and reliable. LED light indicate working state, convenient and efficient.



Safe

Ip65, precise location, easy for maintenance and troubleshooting.



Flexible

Plug and play, configure parameters quickly.



Smart

Read data in real time, support remote control.

I N H E N E R G Y



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